

# FFT CRT Simulation Update

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# Elements of the Simulation

Simulate the results of FFTs for one exposure

- Rectangular array of receivers in  $ny=8$  cylinders and  $nx=512$  detectors per cylinders; regular spacing.
- Gain(frequency) can be specified for each receiver; set to 1 for now
- Antenna Response(frequency, theta, phi) can be specified for each receiver; default used for now.
- Signal: cosmological simulation, pure power law, power law fits to observations, or (for diagnostics) point source.



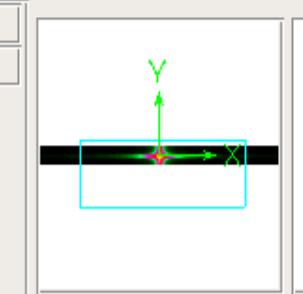
## SAOImage ds9

File Edit View Frame Bin Zoom Scale Color Region WCS Analysis

gov.fnal.eag.sandbox.stougo.twentyonecm.FFTPointingTest.testMain-00005.fit  
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me1 Zoom 14.357 Ang 0.000

File Edit View  
center align wcs

One nx X ny FITS image  
per frequency bin,  
per exposure.



Region

y

gov.fnal.eag.sandbox.stougo.twentyonecm.FFTPointingTest.testMain-00005.fit

File Edit

```
SIMPLE = T / Java FITS: Mon Apr 06 15:25:04 CDT 2009
BITPIX = -64 /
NAXIS = 2 / Dimensionality
NAXIS1 = 129 / number of columns
NAXIS2 = 9 / number of rows
EXTEND = T / Extensions are permitted
BZERO = 0.0 /
BSCALE = 1.0 /
PIROW0 = -4 / row0 for gov.fnal.eag.sim.image.PixeledImage
PICOL0 = -64 / col0 for gov.fnal.eag.sim.image.PixeledImage
CHECKSUM= 'cGcAc9b9cGbAc9b7' / as of 2009-04-06T20:25:04.573
```